

## SAFETY DATA SHEET

according to Regulation (EG) no 1907/2006  
Generic EU MSDS – No country specific data  
REVISION DATE: 2014-06-02

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name: Tris Buffer (Tris-HCl)  
Article number: 12-9198, 12-9199, 12-9200

#### 1.2 Relevant identified uses of the substance or mixture, and uses advised against

Identified uses: Laboratory chemicals, manufacture of substances

#### 1.3 Details of the supplier of the safety data sheet

Company: Medicago AB  
Danmark Berga 13  
755 98 Uppsala  
Telephone: +46 (0)18 56 11 80  
Facsimile: +46 (0)18 56 11 88  
E-mail address: info@medicago.se

#### 1.4 Emergency telephone number

Emergency telephone number: Giftinformationscentralen 112

### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) Nr 1272/2008 (EU-GHS/CLP)

Skin Irrit. 2  
Eye Irrit. 2  
STOT SE 3

#### 2.2 Label elements

Labelling according to Regulation (EC) Nr 1272/2008 (EU-GHS/CLP)



Signal word: Warning

Hazard statement(s)

H315 Causes skin irritation  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation

Precautionary statement(s)

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Complementary hazard information

None

#### 2.3 Other hazards

No data available

### 3. Composition/information on ingredients

#### 3.2 Mixtures

Substance	CAS-no.	EC-no.	Weight %	Classification according to constitution (EG no 1272/2008 (CLP))
Tris (hydroxymethyl) aminomethane hydrochloride	1185-53-1	214-684-5	50-70%	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335
Tris (hydroxymethyl) aminomethane	77-86-1	201-064-4	30-50%	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335

### 4. First aid measures

#### 4.1 Description of first aid measures

If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
If inhaled	Move person to fresh air; if not breathing, give artificial respiration; consult a physician.
In case of skin contact	Wash off with soap and plenty of water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician, preferably an ophthalmologist
General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.

#### 4.2 Most important symptoms and effects, both acute and delayed

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), no additional symptoms and effects are anticipated.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

### 5. Fire fighting measures

#### 5.1 Extinguishing media

Water spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Alcohol resistant foam.

#### 5.2 Special hazards arising from the substance or mixture

Nitrogen oxides, carbon oxides, hydrogen chloride gas, sodium oxides.

#### 5.3 Advice for fire fighters

If necessary, wear self-contained breathing apparatus for fire fighting.

#### 5.4 Further information

No data available.

### 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use appropriate safety equipment. Ensure adequate ventilation. Avoid dust formation. Avoid breathing dust, vapours, mist or gas. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

#### 6.2 Environmental precautions

Prevent from entering into drain, soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

#### 6.3 Methods and material for containment and cleaning up

Contain spilled material if possible. Avoid creating dust. Collect in suitable and properly labelled containers.

#### 6.4 Reference to other sections

See Section 13, Disposal Considerations, for additional information.

## 7. Handling and storage

### 7.1 Precautions for safe handling

Avoid dust and aerosol formation. Avoid contact with skin and eyes. Provide appropriate exhaust ventilation.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a dry, cool and well ventilated place. Keep container tightly closed.

### 7.3 Specific end use(s)

No data available.

## 8. Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

#### Personal protective equipment

##### Eye/face protection

Safety glasses.

##### Skin protection

Handle with gloves, for example nitrile rubber gloves.

##### Body Protection

Impervious clothing. Select protective equipment according to the concentration and the amount of the substance at the workplace.

##### Respiratory protection

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	Form: powder
Odour	no data available
Odour threshold	no data available
pH	no data available
Melting point/ freezing point	no data available
Initial boiling point and boiling range	no data available
Flash point	no data available
Evaporation rate	no data available
Flammability (Solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	soluble
Partition coefficient: n-octanol/ water	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

### 9.2 Other information

No data available

## 10. Stability and Reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

No data available

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

No data available

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### 11.1.2 Mixtures

##### Acute toxicity

No data available

##### Skin corrosion/irritation

No data available

##### Serious eye damage/ eye irritation

No data available

##### Respiratory or skin sensitization

No data available

##### Germ cell mutagenicity

No data available

##### Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

##### Reproductive toxicity

No data available

##### Specific target organ toxicity – single exposure

No data available

##### Specific target organ toxicity – repeated exposure

No data available

##### Aspiration hazard

No data available

##### Potential health effects

Inhalation

May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion

May be harmful if swallowed.

Skin

May be harmful if absorbed through skin. Causes skin irritation.

Eyes

Causes serious eye irritation.

## 12. Ecological information

### 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

No data available

(Continued on page 5)

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

No data available

**12.5 Other adverse effects**

No data available

**13. Disposal considerations****13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. Offer surplus and non-recyclable solutions to a licensed disposal company. No mixing with other waste.

**Contaminated packaging**

Dispose of as unused product.

**14. Transport information****14.1 UN-number**

ADR-RID, IMDG, IATA: -

**14.2 UN proper shipping name**

ADR-RID, IMDG, IATA: -

**14.3 Transport hazard class(es)**

ADR-RID, IMDG, IATA:

**14.4 Packaging group-**

ADR-RID, IMDG, IATA: -

**14.5 Environmental hazards**

ADR-RID:	no
IMDG, water pollutant:	no
IATA:	no

**14.6 Special precautions for user**

No data available

**15. Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No data available.

**15.2 Chemical safety assessment**

No data available.

---

## 16. Other information

---

This information is based on the current state of knowledge.

### Text of H-phrases and P-phrases in section 3

#### Hazard statement(s)

H315	Causes skin irritation
H319	Causes serious eye irritation.
H335	May cause respiratory irritation

#### Precautionary statement(s)

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
--------------------	--

Skin Irrit. 2

Eye Irrit. 2

STOT SE 3

Skin irritation (Category 2)

Eye irritation (Category 2)

Specific target organ toxicity - single exposure